	Application No.	Applicant(s)
Notice of Allowability	10/576,229	KIM ET AL.
	Examiner	Art Unit
	Thomas R. Artman	2882
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>12/5/07</u> .		
2. The allowed claim(s) is/are <u>1-4</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	5. Notice of Informal 6. Interview Summan Paper No./Mail Da 7. Examiner's Amend 8. Examiner's Statem 9. Other	y (PTO-413), ate

DETAILED ACTION

Allowable Subject Matter

Claims 1-4 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record neither teaches nor reasonably suggests an inspection system having a camera that simultaneously receives an x-ray image amplified through a light amplifying unit and a visual image of the inspected object illuminated by an optical unit, where a half mirror is arranged on a light axis between the x-ray source and the camera and a reflection mirror is arranged on an emitting light axis of the optical unit and on a same line in a horizontal direction where the half mirror is placed, as required by the combination as claimed in claim 1

Claims 2-4 are allowed by virtue of their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number:

10/576,229 Art Unit: 2882

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gerlach (US 4,943,988) teaches all aspects of the claimed invention except for the optical unit illuminating the object to be inspected. The optical unit does not illuminate the object to be inspected but is instead used to project a copy of the x-ray image simultaneously with the amplified x-ray image in order to adjust the brightness of the resulting image on the camera.

Rafaeli (US 7,023,954 B2) teaches that a solid state detector may be used for both X-ry and optical imaging of an object to be inspected. Landi (US 5,644,616) teaches an x-ray and optical alignment system that utilizes a common detector. Tan (US 4,542,290) teaches a device where a camera detects converted x-ray channels and direct optical light from a target.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R. Artman whose telephone number is (571) 272-2485.

The examiner can normally be reached on 9am - 5:30pm Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/576,229

Art Unit: 2882

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thomas R. Artman Patent Examiner

EDWARD S. GLICK

SUPERVISORY PATENT EXAMINE"